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## **CST7 Protein (Fc Tag)**





#### Overview

| Quantity:                     | 20 μg                                      |
|-------------------------------|--|
| Target:                       | CST7                                       |
| Origin:                       | Mouse                                      |
| Source:                       | HEK-293 Cells                              |
| Protein Type:                 | Recombinant                                |
| Biological Activity:          | Active                                     |
| Purification tag / Conjugate: | This CST7 protein is labelled with Fc Tag. |

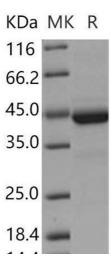
#### **Product Details**

| Purpose:                     | Recombinant Mouse Cystatin 7/CST7 Protein (Fc Tag)(Active)   |
|------------------------------|--|
| Sequence:                    | Met1-Gln144  |
| Characteristics:             | A DNA sequence encoding the mouse CST7 (089098) (Met1-Gln144) was expressed, fused with the Fc region of human IgG1 at the C-terminus.                       |
| Purity:                      | > 93 % as determined by SDS-PAGE   |
| Endotoxin Level:             | < 1.0 EU per µg of the protein as determined by the LAL method.  |
| Biological Activity Comment: | Measured by its ability to inhibit active Cathepsin L cleavage of a fluorogenic peptide substrate Z-LR-AMC, R&D Systems, Catalog # ES008.The IC50 is < 6 nM. |

## Target Details

## **Target Details**

| Alternative Name:   | Cystatin 7/CST7 (CST7 Products)  |
|---------------------|--|
| Background:         | Background: The cystatin superfamily members are important natural cysteine protease               |
|                     | inhibitors present in a wide variety of organisms and are divided into three classes. Cystatin F,  |
|                     | also known as leukocystatin and CMAP (Cystatin-like Metastasis-Associated Protein), is a type      |
|                     | 2 cystatin and its expression is limited to hematopoietic cells, with the highest expression level |
|                     | being observed in monocytes, dendritic cells, and certain types of T-cells. Furthermore, cystatin  |
|                     | F mRNA becomes up-regulated during dendritic cell maturation, and thus suggests a specific         |
|                     | role of cystatin F in immune regulation. Cystatin F is produced as a dimer, an inactive cathepsi   |
|                     | inhibitor which is activated by chemical reduction. In addition, Cystatin F and its homologues     |
|                     | have been observed expressing in various human cancer cell lines established from malignant        |
|                     | tumors, and thus indicates a new diagnosis and prevention approach of certain human                |
|                     | carcinomas metastasis.   |
|                     | Synonym: Cystatin-F, Cystatin-like Metastasis-Associated Protein, Leukocystatin, CMAP,             |
|                     | Cystatin-7, Cst7   |
| Molecular Weight:   | 41.4 kDa   |
| UniProt:            | 089098   |
| Application Details |  |
| Restrictions:       | For Research Use only  |
| Handling            |  |
| Format:             | Lyophilized  |
| Reconstitution:     | Please refer to the printed manual for detailed information.                                       |
| Buffer:             | Lyophilized from sterile 25 mM Tris, 0.15M NaCl, pH 7.5  |
| Storage:            | 4 °C,-20 °C,-80 °C   |
| Storage Comment:    | Generally, lyophilized proteins are stable for up to 12 months when stored at -20 to -80°C.        |
|                     | Reconstituted protein solution can be stored at 4-8°C for 2-7 days. Aliquots of reconstituted      |
|                     | samples are stable at < -20°C for 3 months.  |



## **Western Blotting**

Image 1.